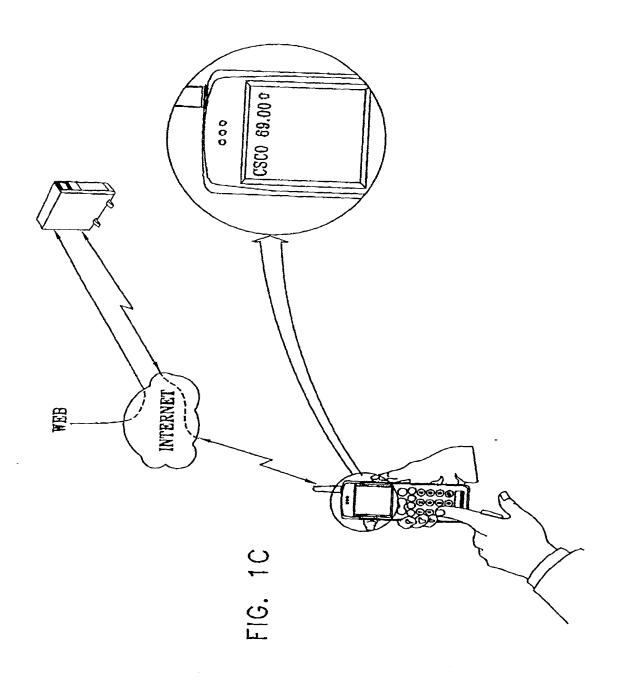
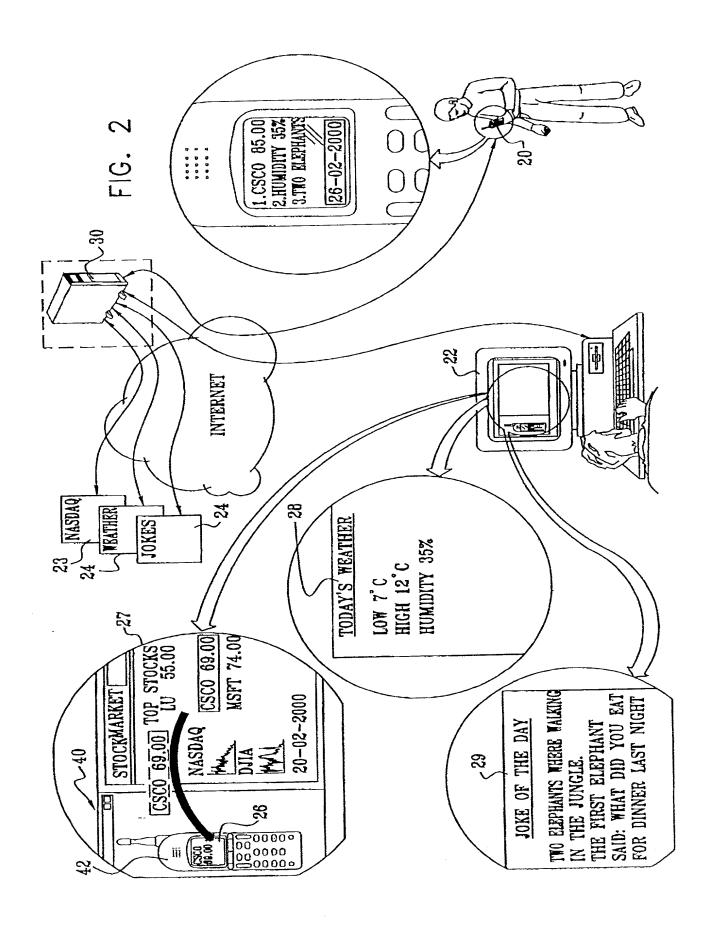
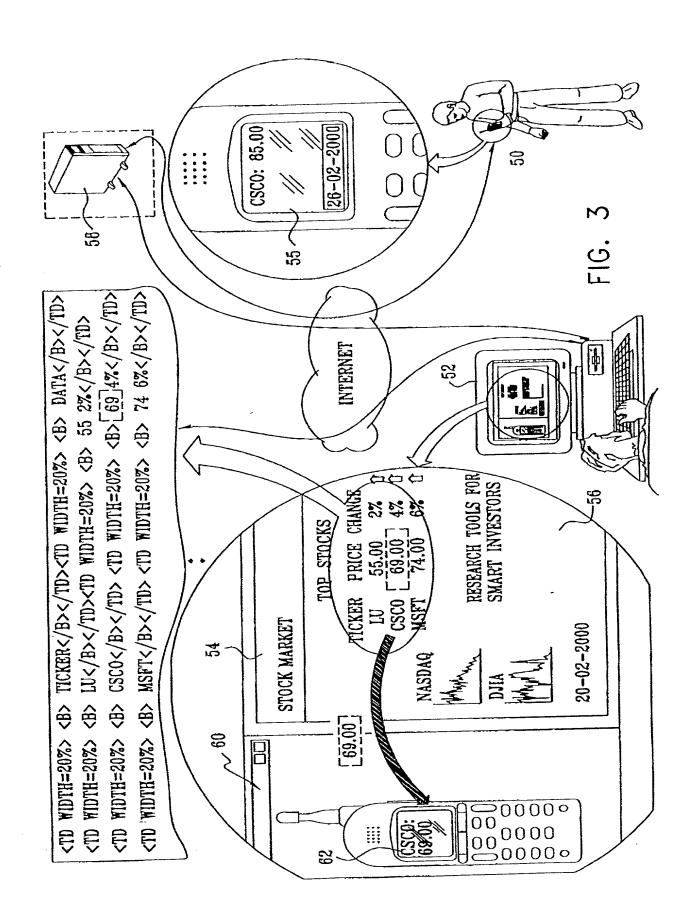
200



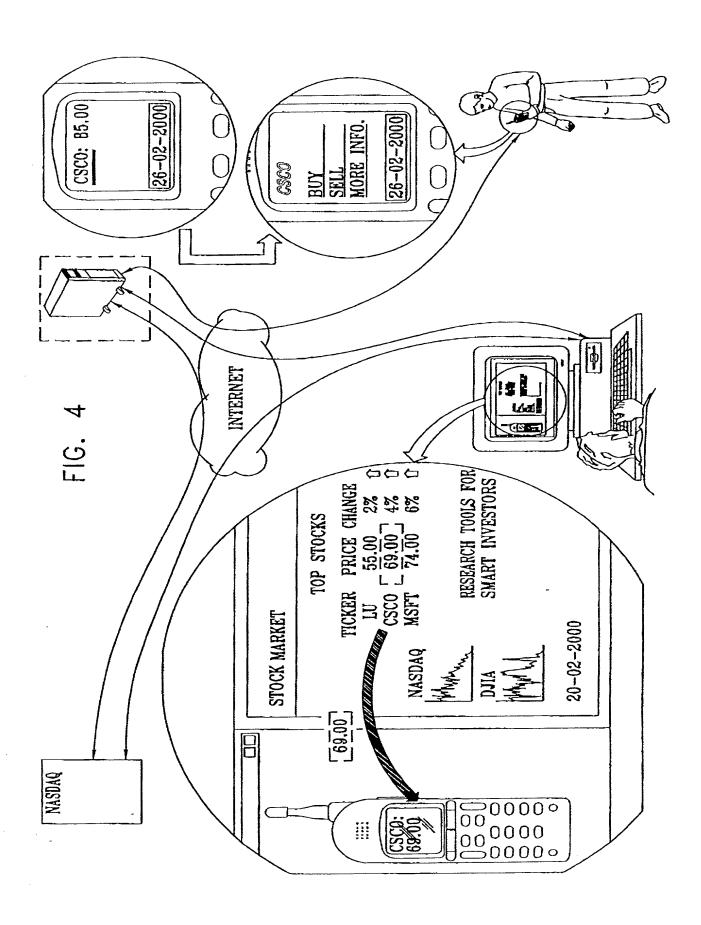


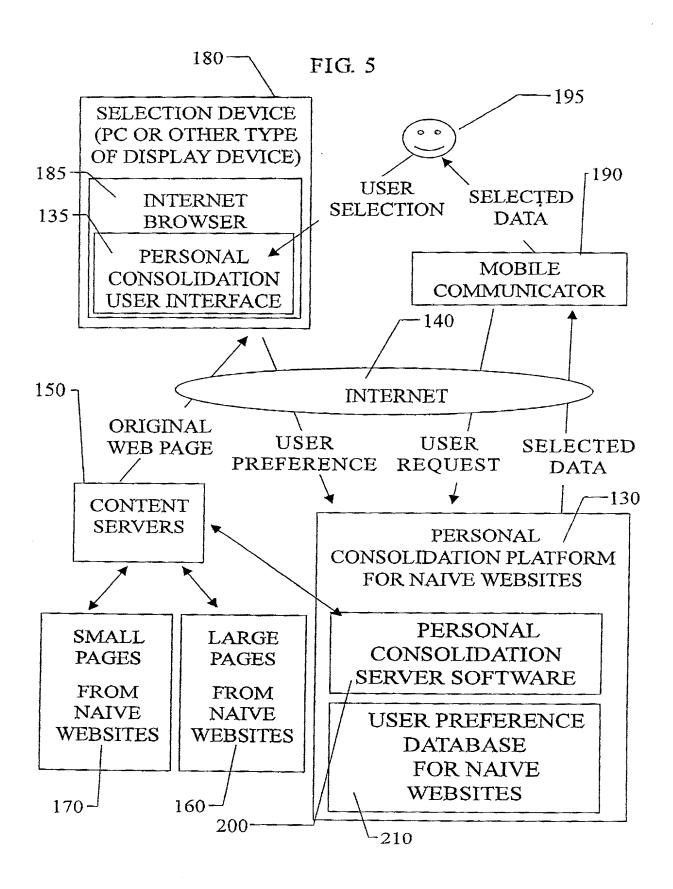
8|18||9

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FIG. 6A

	USER DATA TABLE			
USER #	USER NAME	MOBILE COMMUNICATOR TYPE	PASSWORD	
1	REUVEN GAMZON	SMS	1234	
2	ELI ARLAZOROF	WAP (NOKIA 7110)	1256	
3	LIORA BREGMAN	VOICE	3456	
•	•		•	
•				
•	•	•	•	

FIG. 6B

USER PAGE TABLE		
USER#	Page #	
1	12	
1	13	
1	20	
2	5	
•		
•	•	
•	•	

FIG. 6C

PAGE		
PAGE#	Item #	
12	1	
12	2	
12	3	
13	5	
13	6	
•	•	
•	•	
•		

Opposite the second section of the section of the second section of the section of the second section of the sectio

FIG. 6D

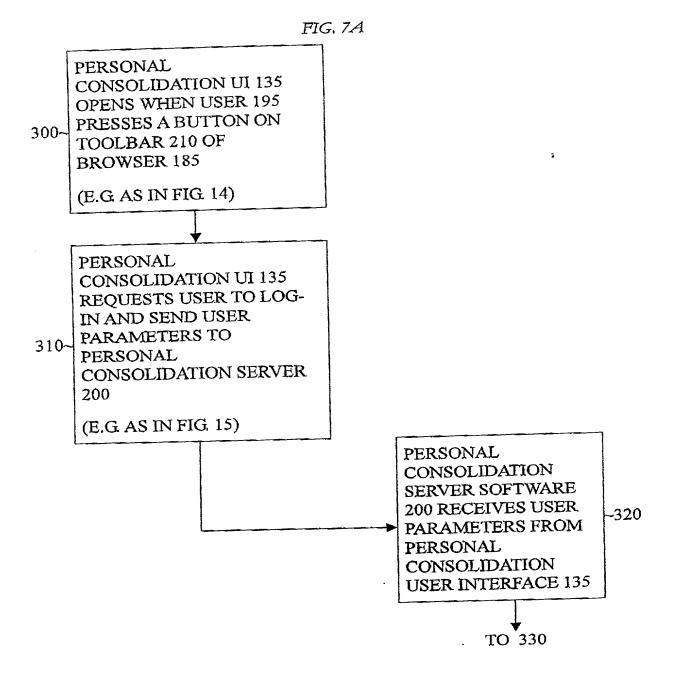
ITEM TABLE			
ITEM#	ITEM NAME	ITEM EXTRACTION INFORMATION	DOWNLOAD INFORMATION
1	PARIS TEMP.		
2	MSFT PRICE		
3	TODAY'S JOKE		
		•	٠
•		•	
	•	·	•

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12/55

FIG. 6E

FIXED INTERNET-WIRELESS INTERNET CORRESPONDENCE TABLE LARGE PAGE URL (URL IN FIXED INTERNET) (URL IN WIRELESS INTERNET) MSN.COM WAP.MSN.COM YAHOO.COM NASDAQ.COM WAPSTOCKS.COM



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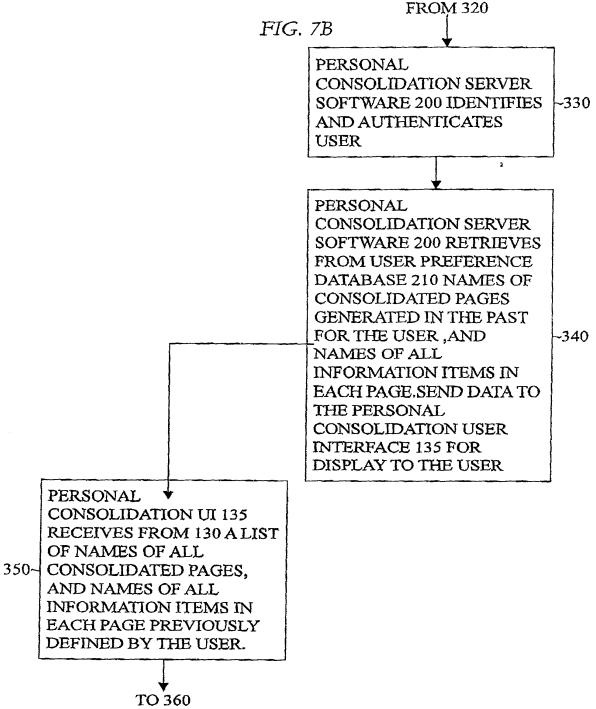


FIG. 7C

PERSONAL CONSOLIDATION UI 135 DISPLAYS PAGE NAMES TO USER 195 (E.G. AS IN FIG. 16).

WAITS UNTIL USER 195
SELECTS ONE OF THE
PAGES, AND DISPLAY THE
NAMES OF ALL THE ITEMS
CURRENTLY DEFINED IN
THAT PAGE.

IF USER SELECTS "NEW PAGE",

PROMPTS USER TO ENTER A NAME FOR THIS NEW PAGE. (E.G. AS IN FIG. 17)

PERSONAL
CONSOLIDATION UI 135
PROMPTS THE USER 195 TO
EMPLOY BROWSER 180 &
BROWSE TO AN INTERNET
PAGE (E.G. AS IN FIG. 18),
AND SELECT A PORTION
OF THE INFORMATION
DISPLAYED IN THAT PAGE,
E.G. USING MICROSOFT
INTERNET EXPLORER
SELECTION
FUNCTIONALITY.

TO 380

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16/55 **FROM 370** FIG. 7D PERSONAL **CONSOLIDATION UI 135** WAITS UNTIL USER 195 DRAGS THE SELECTED INFORMATION TO 380~ CONSOLIDATED PAGE **USER INTERFACE 135** (E.G. AS IN FIG. 19) **PERSONAL CONSOLIDATION UI 135** WAITS FOR INDICATION FROM OPERATING 390~ SYSTEM RUNNING ON PC 180 THAT USER HAS DROPPED THE SELECTED INFORMATION ITEM **PERSONAL CONSOLIDATION UI 135** USES API OF BROWSER 185 TO TRAVERSE BROWSER'S HIERARCHICAL REPRESENTATION OF 400~ INTERNET PAGE DISPLAYED BY BROWSER AND FIND WHICH ELEMENTS IN HIERARCHY WERE USER-SELECTED

TO 410

PERSONAL CONSOLIDATION UI 135 MARKS BEGINNING AND END OF SOURCE CODE TEXT INCLUDED IN USER-SELECTED ELEMENT OF INTERNET PAGE REPRESENTATION, E.G. BY USING "GET ELEMENT TEXT" 410~ FUNCTION IN API OF **BROWSER 185 TO ACCESS** TEXT AND REPLACING THAT TEXT, IN BROWSER MEMORY, WITH SAME TEXT DELIMITED BY BEGIN AND END TAGS, THEREBY TO GENERATE "MARKED INTERNET PAGE"

PERSONAL CONSOLIDATION
UI 135 READS HTML FILE OF
MARKED INTERNET PAGE,
E.G. USING API OF BROWSER
185

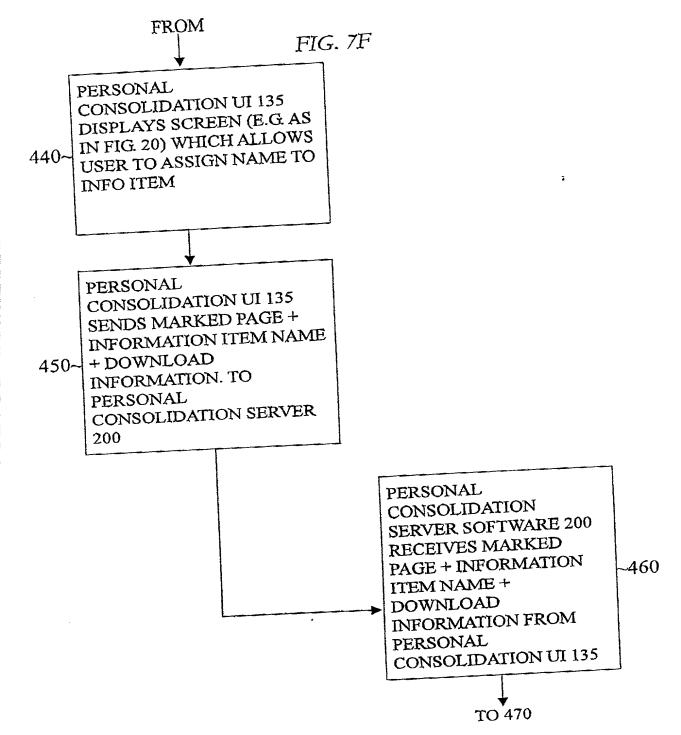
PERSONAL CONSOLIDATION
UI 135 RECEIVES FROM
BROWSER 185 ALL INFO
REQUIRED TO DOWNLOAD
PAGE, E.G. RECEIVE PAGE
URL AND COOKIE INFO FROM
BROWSER'S API

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TO 440

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FROM

FIG. 7G

PERSONAL CONSOLIDATION SERVER SOFTWARE 200 FINDS SELECTION AREA, E.G. BY LOOKING FOR THE PRE-DETERMINED BEGIN & END TAGS

470

PERSONAL CONSOLIDATION SERVER SOFTWARE 200 ANALYZES SELECTED FIXED INTERNET PAGE FOR CONTENT PERTAINING TO SELECTION AREA, AND FIND ITEM EXTRACTION INFORMATION. (FIG. 28)

-480

PERSONAL CONSOLIDATION SERVER SOFTWARE 200 SAVES THE FOLLOWING DATA IN THE USER PREFERENCE DATABASE 210 IN ITEM TABLE (FIG 6D):

-490

- ITEM NAME
- DOWNLOAD INFORMATION
- ITEM EXTRACTION INFORMATION

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FIG. 8A

RECEIVE INFO REQUEST FROM MOBILE COMMUNICATOR 190 E.G. USER ACTIVATES BROWSER ON HIS MOBILE COMMUNICATOR, NAVIGATES TO PREDETERMINED URL, ENTERS INFO REQUEST AND GETS DISPLAY (E.G. AS IN FIG. 21)

WAIT TILL USER ENTERS HIS OWN PARTICULARS
AND SELECTED CONSOLIDATED PAGE
510~ PARTICULARS

RETRIEVE INFO REQUIRED TO GENERATE CONSOLIDATED PAGE E.G. NAME, EXTRACTION INFO AND DOWNLOAD INFO FOR EACH ITEM ON PAGE, E.G. BY IDENTIFYING USER IN USER DATA TABLE OF FIG. 6A, IDENTIFYING SELECTED CONSOLIDATED PAGE FROM AMONG CONSOLIDATED PAGES OF THAT USER STORED IN USER PAGE TABLE OF FIG. 6B, IDENTIFYING ALL ITEMS OF SELECTED CONSOLIDATED PAGE FROM AMONG ITEMS STORED IN PAGE TABLE OF FIG. 6C, AND RETRIEVING RECORD OF EACH IDENTIFIED ITEM FROM ITEM TABLE OF FIG. 6D

TO 540

520~

FIG. 8B

FROM 520

FOR EACH ITEM IN SELECTED CONSOLIDATED PAGE, DOWNLOAD RELEVANT INTERNET PAGE, AS DEFINED BY "DOWNLOAD INFO" FIELD OF THAT ITEM IN ITEM TABLE OF FIG. 6D, USING CONTENT SERVER 150

FOR EACH DOWNLOADED INTERNET PAGE, EXTRACT SELECTED ITEM THERE FROM, USING "ITEM EXTRACTION INFO" FIELD OF THAT ITEM IN ITEM TABLE OF FIG. 6D AS INPUT TO METHOD OF FIG. 29.

OPTIONALLY, FOR EACH ITEM IN CONSOLIDATED PAGE DOWNLOADED FROM A FIXED INTERNET LOCATION HAVING A CORRESPONDING MOBILE INTERNET LOCATION STORED IN THE FIXED-WIRELESS CORRESPONDENCE TABLE OF FIG. 6E, DISPLAY THAT ITEM AS A LINK TO THAT MOBILE INTERNET LOCATION RATHER THAN AS PLAIN TEXT

TO 570

560~

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FIG. 8C FROM 560

FORMAT CONSOLIDATED PAGE ACCORDING TO CAPABILITIES OF THE MOBILE COMMUNICATOR SERVING THE USER AS STORED IN "MOBILE COMMUNICATOR TYPE" FIELD OF USER DATA TABLE IN FIG. 6A

SEND FORMATTED CONSOLIDATED PAGE TO MOBILE COMMUNICATOR 190

(E.G. AS IN FIG. 22, IF USER SELECTS THE LINK ON THE ITEM NAMED "MSFT", HE WILL BE TRANSFERD TO A RELEVANT PAGE, AS IN FIG. 23)

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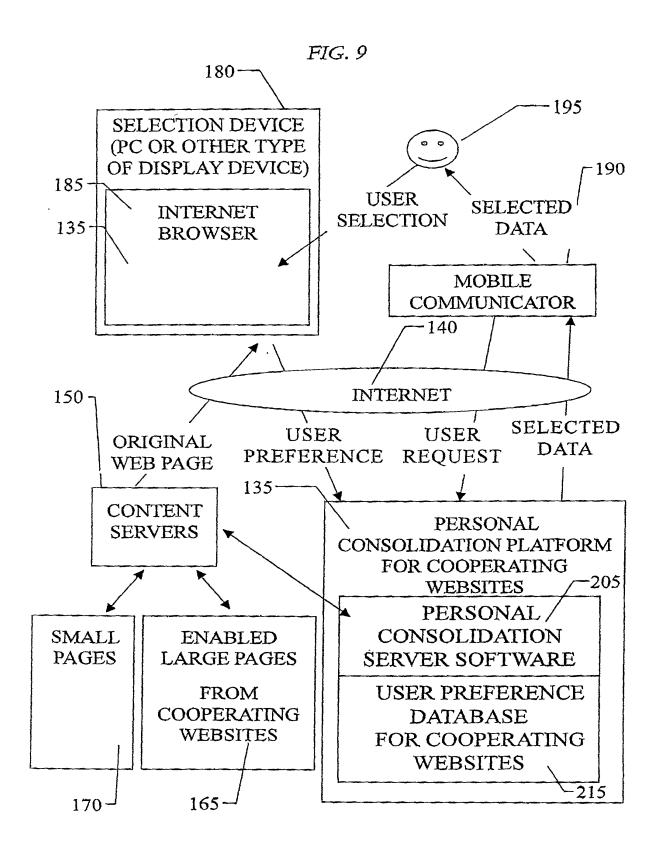
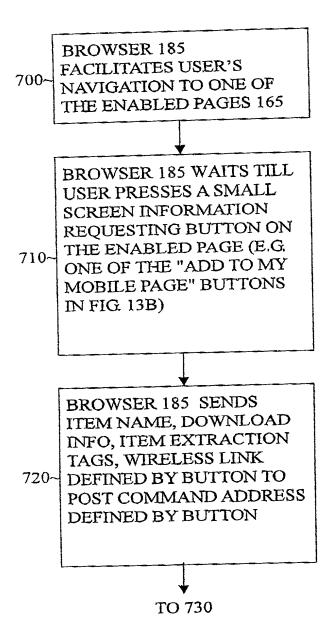


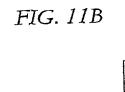
FIG. 10

ITEM TABLE				
ITEM#	ITEM NAME	ITEM EXTRACTIO N TAGS	DOWNLOAD INFORMATION	WIRELESS LINK
1	PARIS TEMP.			
2	MSFT PRICE			
3	TODAYS JOKE			
			•	•
•		•		•
	•	•	•	

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FIG. 11A





FROM 720

PERSONAL CONSOLIDATION SERVER SOFTWARE 205 RECEIVES THE FOLLOWING INFO-DEFINING PARAMETERS FROM 185:

~730

ITEM NAME

DOWNLOAD INFO.

ITEM EXTRACTION TAGS.

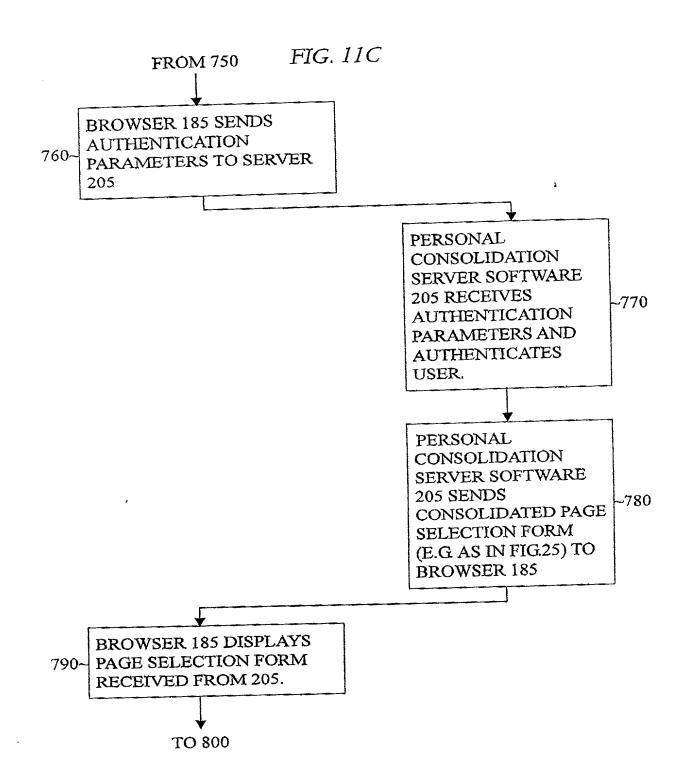
WIRELESS LINK

PERSONAL CONSOLIDATION SERVER SOFTWARE 205 SENDS USER **AUTHENTICATION** PAGE (E.G. AS IN FIG. 24) TO BROWSER 185

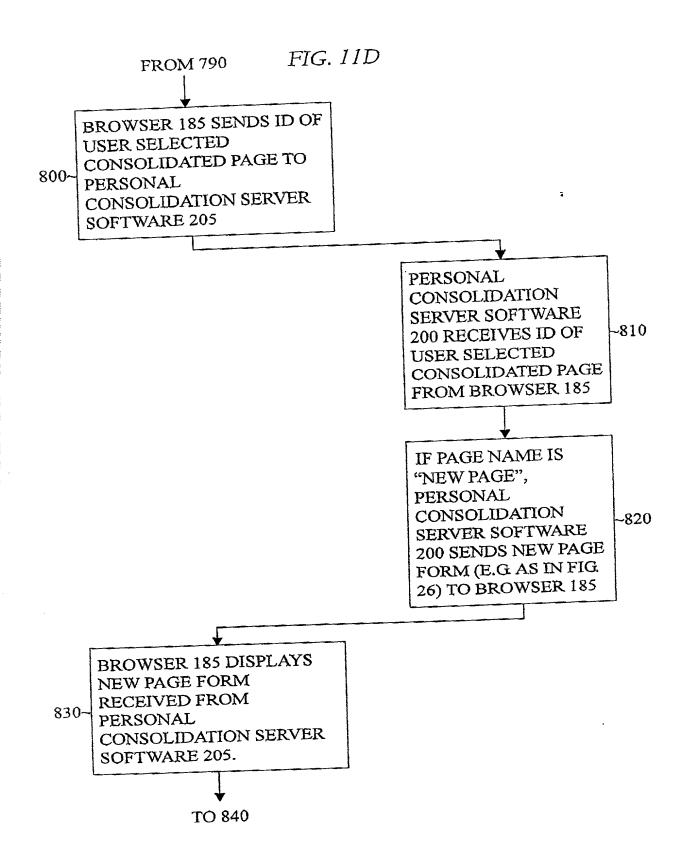
~740

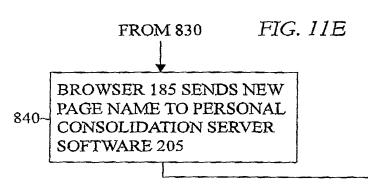
BROWSER 185 DISPLAYS **AUTHENTICATION PAGE** (E.G. AS IN FIG. 24) 750~ RECEIVED FROM PERSONAL CONSOLIDATION SERVER SOFTWARE 205

TO 760



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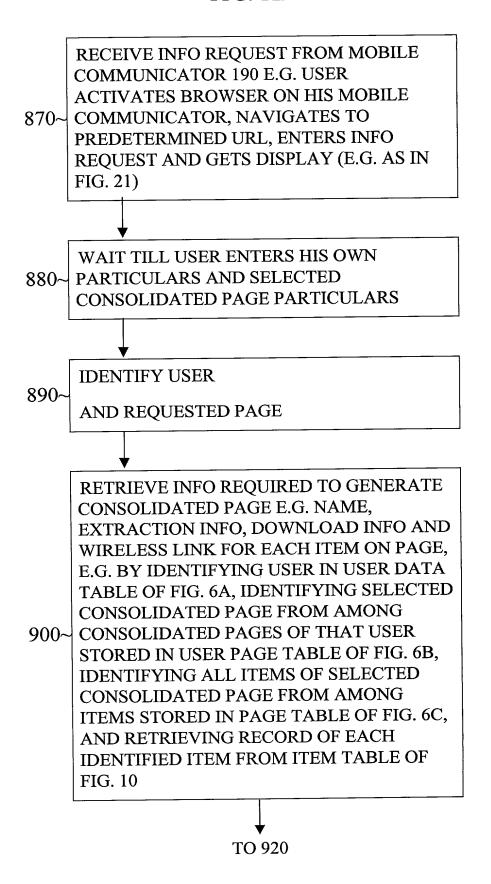
IF PAGE NAME IS "NEW PAGE" PERSONAL CONSOLIDATION SERVER SOFTWARE 200 CREATES NEW **ENTRY IN PAGE** TABLE OF FIG. 6C, AND ADD THIS PAGE TO USER PAGES TABLE OF FIG.6B.

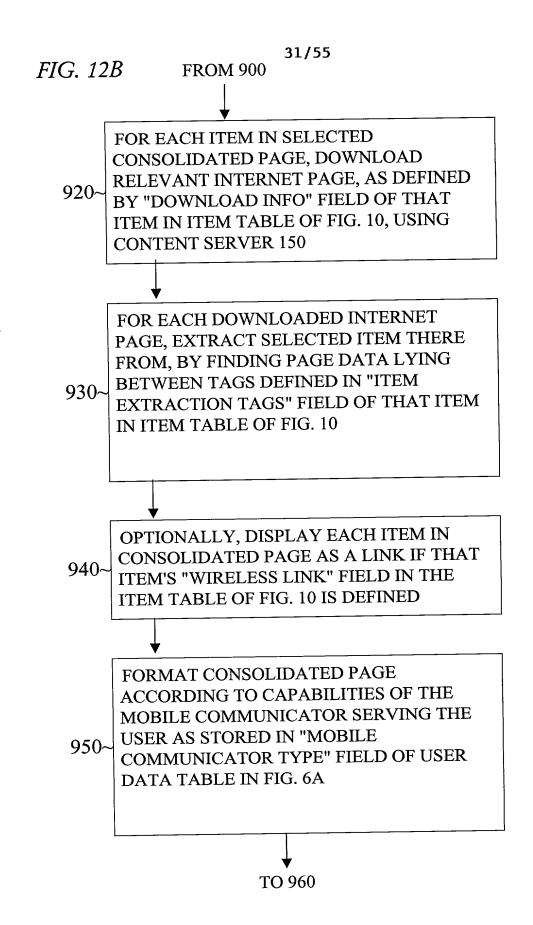
PERSONAL CONSOLIDATION SERVER SOFTWARE 200 STORES INFO-**DEFINING** PARAMETERS IN ITEM TABLE (FIG. 10) OF USER **PREFERENCE DATABASE 215**

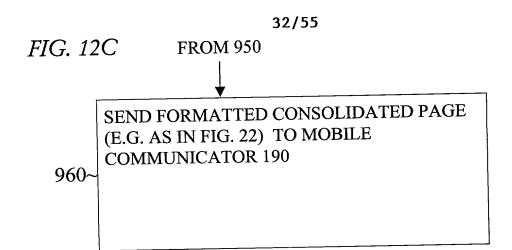
~860

~850

30/55 FIG. 12A







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• 2p (4p) 1 "

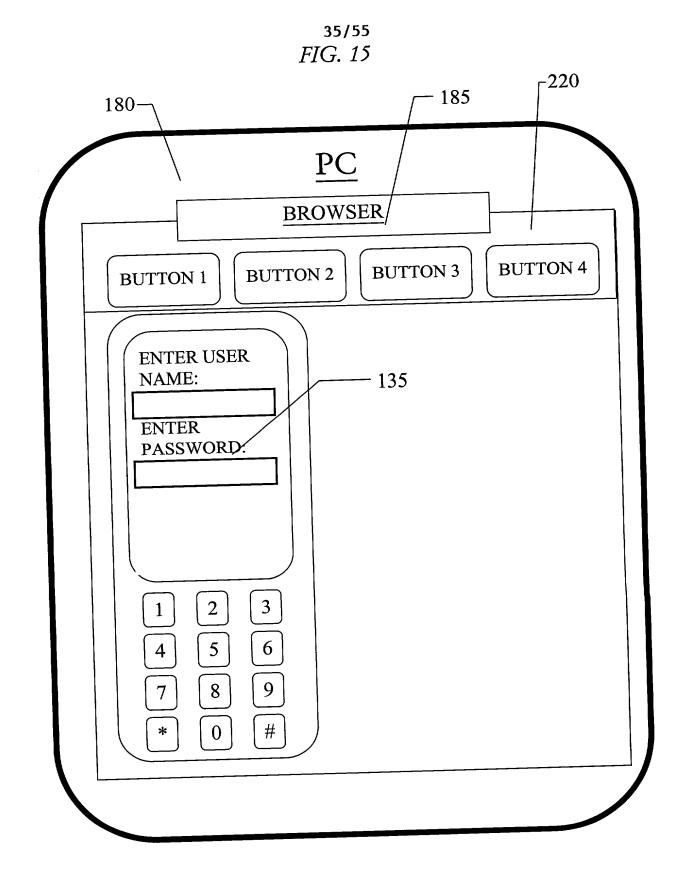
33/55 FIG. 13A (Prior art)

	WORLD WEATHER
PARIS	19 °
LONDON	21°
NEW YORK	17°

FIG. 13B

Add To My Mo	bile Page	
	RLD WEATHER	
Add To My Mo	bile Page	
PARIS Add To My Mo	19°]
LONDON	21°	
NEW YORK	17°	

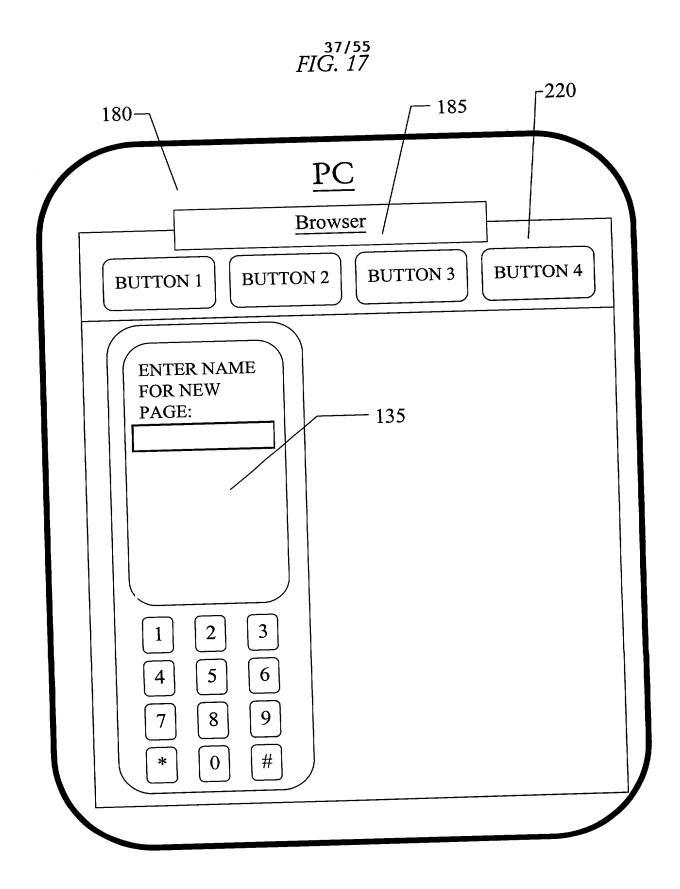
34/55 FIG. 14 -220 180-- 185 <u>PC</u> BROWSER BUTTON 3 BUTTON 1 BUTTON 2 BUTTON 4



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FIG. 16 -220 180-- 185 PC Browser **BUTTON 1 BUTTON 2 BUTTON 3 BUTTON 4** 1. DAILY PAGE 2. HOLIDAY 3. JOKES 135 4. NEW PAGE SELECT PAGE #: 1 2 3 5 6 4 7 8 9 0 #

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38/55 FIG. 18

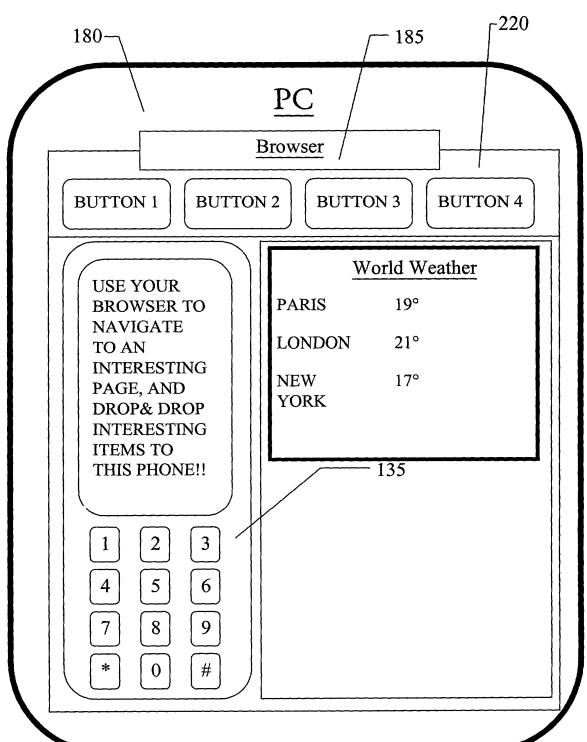


FIG. 19 -220 - 185 180-PC Browser **BUTTON 4 BUTTON 3** BUTTON 2 BUTTON 1 World Weather DAILY PAGE 19° **PARIS** MSFT: LOTO: LONDON NY WIND: 17° NEW YORK 135 3 2 6 5 9 8 # 0

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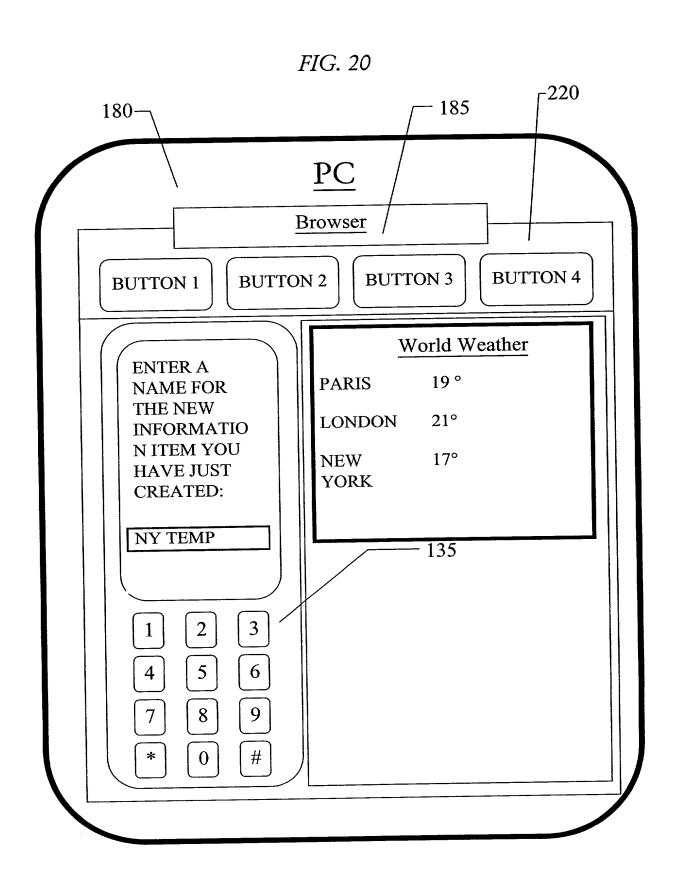
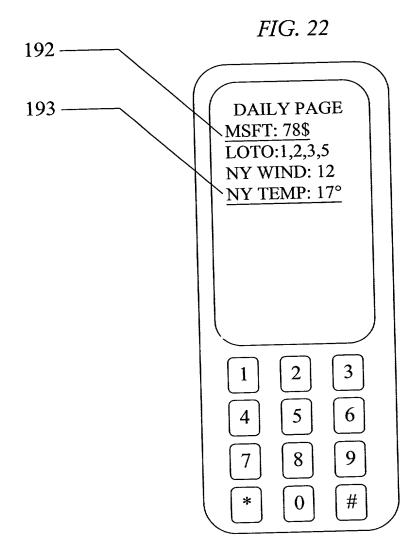


FIG. 21

/		
	ENTER USER NAME:	
	NAME.	١
		١
	ENTER	١
	PASSWORD:	
		١
	ENTER PAGE	
	NAME:	
	$\begin{bmatrix} 1 \end{bmatrix} \begin{bmatrix} 2 \end{bmatrix} \begin{bmatrix} 3 \end{bmatrix}$	
	$\begin{bmatrix} 4 \end{bmatrix} \begin{bmatrix} 5 \end{bmatrix} \begin{bmatrix} 6 \end{bmatrix}$	
	7 8 9	
	7 8 9	
	* 0 #	
	* 0 #	/

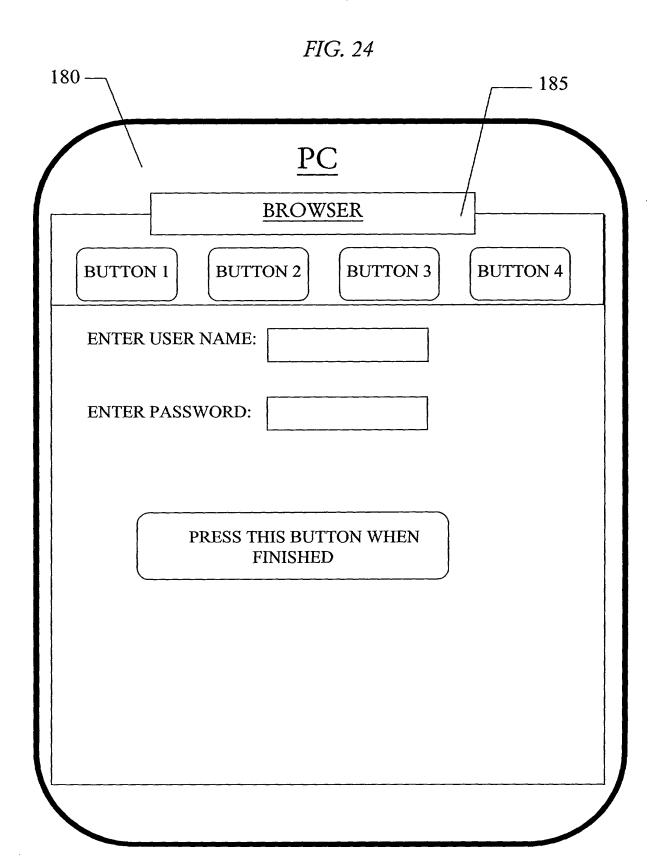


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FIG. 23

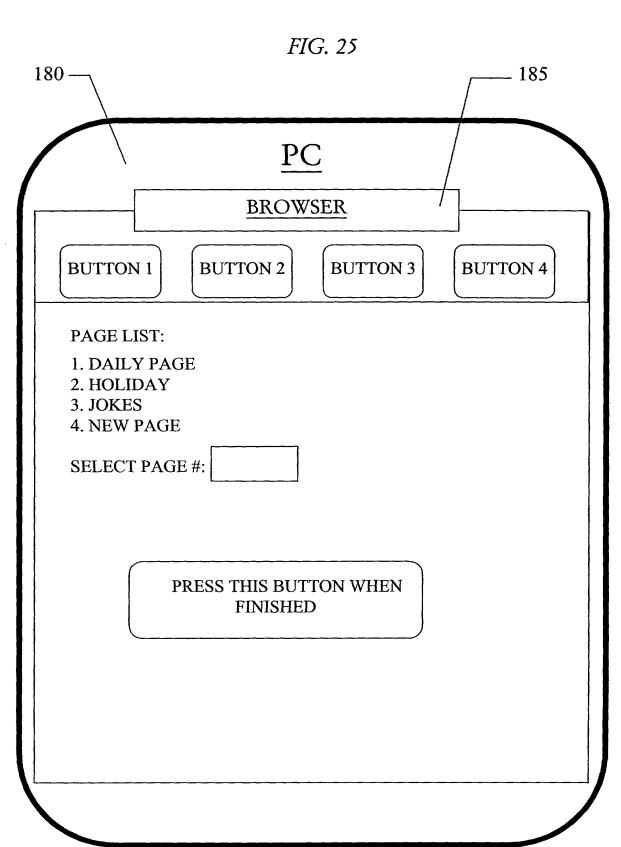
(MSFT ENTER	
	NUMBER OF	
	SHARES:	١
	ENTER 1 TO	١
	BUY,	١
	2 TO SELL	١
		١
		١
	1 2 3	
	$\boxed{4} \boxed{5} \boxed{6}$	
	4 9 6	
	7 8 9	
	* 0 #	
	* 0 #	
`		

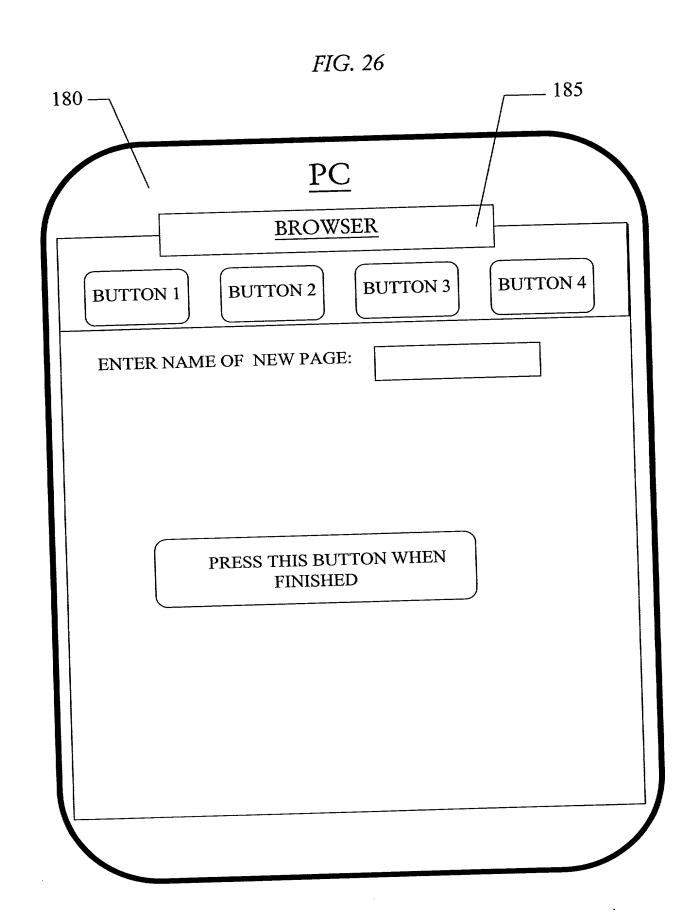
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FIG. 27A

	WORLD WEATHER	
PARIS	19 °	
LONDON	21°	
NEW YORK	17°	:

FIG. 27B

```
<HEAD>
< META HTTP-EQUIV = "CONTENT-TYPE" CONTENT = "TEXT/HTML;
CHARSET=WINDOWS-1252">
<TITLE>WORLD WEATHER</TITLE>
</HEAD>
<BODY>
<TABLE BORDER="1" WIDTH="100%">
<TR>
 <TD WIDTH="100%" COLSPAN="2">
  <PALIGN="CENTER"><U> WORLD WEATHER</U></TD>
</TR>
<TR>
 <TD WIDTH="31%"></TD>
 <TD WIDTH="35%">19 °</TD>
</TR>
<TR>
 <TD WIDTH="31%">LONDON</TD>
 <TD WIDTH="35%">21</TD>
</TR>
                         <TR>
            <TD WIDTH="31%">NEW YORK</TD>
         <TD WIDTH="35%"><MARK TAG>17°</MARK
                    TAG > </TD >
                        </TR>
                      </TABLE>
                      </BODY>
</HTML>
            250
                        255
```

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FIG. 27C

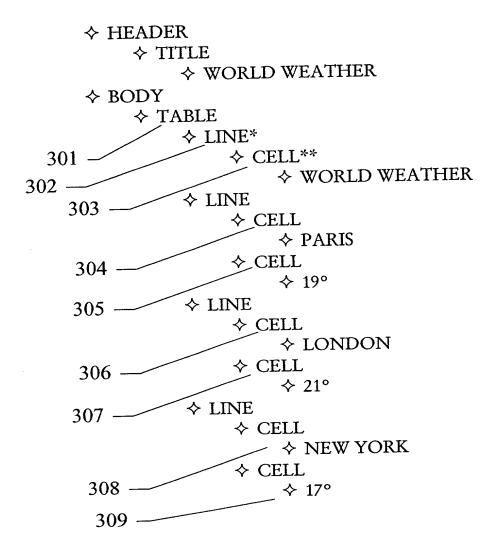


FIG. 28A

Parse the marked page using an html parser which may comprise a conventional html parser such as MSXML.dll, marketed by Microsoft. The output of the html parser, which typically comprises an html tree representation of the marked page, is typically stored in the memory of server 200. An example of such output is shown in Fig. 27C.

Identify the html elements that contains the "beginning" and "end" tags defined in the course of the information marking 1210~ operation of Fig. 7D, step 410. Also, identify all descendants of these html elements.

Count the number of elements separating the element containing the "beginning" tag from the first element in the html tree. Save 1220~ this "begincount" parameter. Typically, the ordering of the elements in the tree which is used as a basis for the counting operation comprises a "breadth first" ordering.

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TO 1230

1200~

FIG. 28B

FROM 1220

1230~

Count the number of elements separating the elements containing the "beginning" and "end" tags, respectively, in the html tree. Save this "endcount" parameter.

If the beginning tag falls within a text string defined as a single html element, rather than between html elements, count the number of words separating the beginning of the element from the beginning tag. Save this "beginword" parameter.

1240~

1250~

If the end tag falls within a text string defined as a single html element, rather than between html elements, count the number of words separating the beginning of the element from the end tag. Save this "endword" parameter.

TO 1260

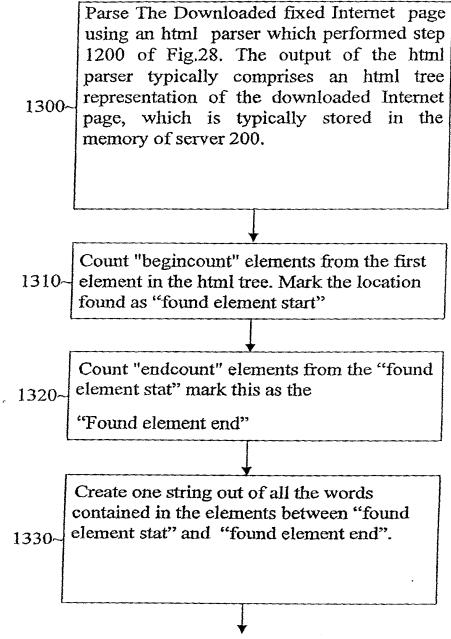
FIG. 28C

FROM 1250

Store begincount, endcount, beginword and endword parameters as item extraction information in the item table of Fig. 6D (this information is used, in step 550 of Fig. 8B by personal consolidation server software 200 of Fig. 1, to extract information and display it on a mobile communicator device.)

1260~

FIG. 29A



TO 1340

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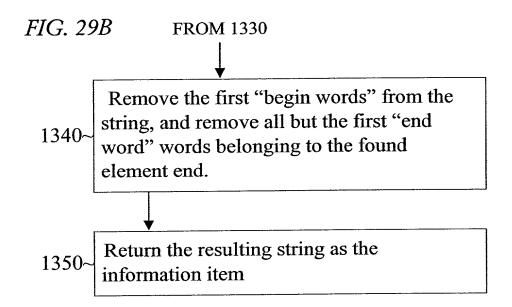


FIG. 30

```
<head>
<meta http-equiv="Content-Type"
content="text/html; charset=windows-1252">
<title>World Weather</title>
</head>
<body>
<table border="1" width="100%">
 <palign="center"><u> World Weather</u></td>

 <td width="35%"> <Temp1>19 ° </Temp1> </td>
 <td width="31%">London</td>
 <td width="35%"><Temp2><21°</Temp2></td>
  New York 
     <td width="35%"> <Temp3>17° </Temp3> </td>
</html>
```